"The Consensus Process in Development of Codes"



NIST Standards in Trade Workshop for China on Fire Protection for the Built Environment

20 – 24 September 2004

Gaithersburg, MD USA

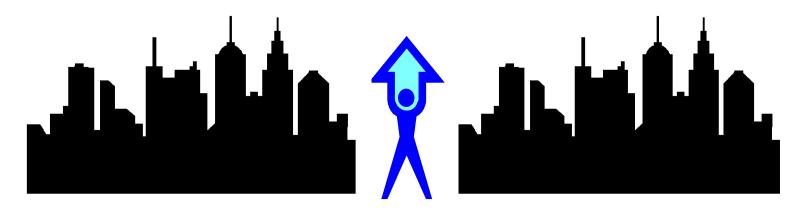
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The Consensus Process in the Development of Codes

- 1) Basics of Codes & Standards Development
- 2) How the U.S. is Different
- 3) The ANSI Platform
- 4) U.S. Federal Government Role
- 5) International Codes & Standards Processes





- Difference between Codes & Standards
 - Standards:
 - Address specific technical issues.
 - Tend to be more common, and have fewer pages.

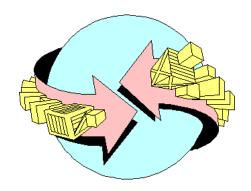


- Codes:
 - Have significant impact on society.
 - Address broad topics, & reference standards on details.
 - Are less common, and are very comprehensive.
- Note: ANSI procedures refer generally to all standardizing documents as "standards"





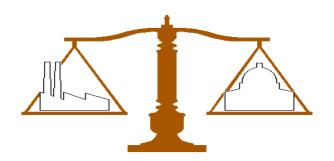
- Product oriented documents
 - Focus on marketplace coordination
 - Example: standard on bolt threads
- Safety oriented documents
 - Focus on establishing minimum acceptable levels, for topics such as public safety, health, and protection of the environment.
 - Example: building code
- Combination documents
 - addressing products and safety
 - Example: fire test standards







- Mentioned in important treaties and procedures
- Not clearly defined
- Risk concepts measuring the "Value of Human Life" (Example: SFPE Handbook, 1st ed.)



**Section 4/Chapter 9

**CHAPTER OF HUMAN LIFE

G. Ramachandran

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Concepts of "Safety"

- Balance of society's:
 - Tolerance to risk
 - Willingness to commit resources
- Example: Sprinkler systems in hi-rise buildings





2) How the U.S. is Different

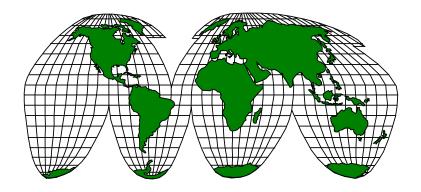
- Self-regulated system; comprised of private independent developers.
 - Approximately 200 organizations accredit
 ~10,000 documents through ANSI.
 - Market regulated model documents.
 - Less than 10% of organizations generate 75% of all documents.





2) How the U.S. is Different

- Decentralized government oversight
- U.S. System is generally blind to geographic boundaries.
 - Anyone from any country can participate.
 - Based on principle of "Openness".





3) The ANSI Platform

- Private, non-profit organization, since 1918.
- Administers and coordinates the U.S. voluntary standardization and conformity assessment systems.
- Gateway for certain International activities
 - ISO
 - IEC (via the U.S. National Committee).
 - PASC (Pacific Area Standards Congress)
 - COPANT (Pan American Standards Comm.)





3) The ANSI Platform

- Assists with establishing levels of safety & health, and protection of the environment.
- Improves efficiency of marketplace.
- Helps provide legal safeguards.
 - Antitrust ,Product Liability, Negligence,
 & so on...
- Provides forum for government coordination.
 - Federal Government Acceptability
 - Local Jurisdiction Recognition



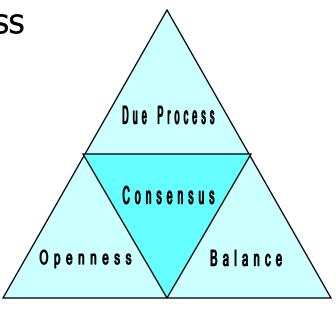


3) The ANSI Platform

ANSI Cardinal Principles for Designation as an American National Standard (ANS)

Hallmarks of the ANS Process

- Openness, due process, consensus by a balance of materially-affected interests, consideration of views and objections
- Transparency of the process
- Fundamental fairness Ensures level playing field



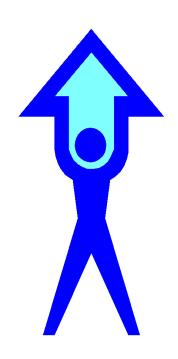


- General recognition of overall system
 - OMB Circular A-119; and National Technology Transfer & Advancement Act of 1995 (Public Law 104-113).
 - Encourages participation and document use.
 - Acknowledges efforts of private developers.





- U.S. Federal Government defers to States and other local jurisdictions on certain topics
 - Typical of broad impact codes like those on building, mechanical, electrical, & plumbing.
 - Often addressed on state-by-state basis, using model documents with amendments.







- One measure: WTO and the Technical Barrier to Trade (TBT) Agreement.
 - Annex 4 of TBT Report (2000)
 - Transparency, Openness,
 - Impartiality & Consensus,
 - Effectiveness & Relevance
 - Coherence
 - Address developing countries





- Multiple approaches exist:
 - One-Country/One-Vote
 - ISO, IEC, ITU
 - Full Consensus
 - Typical Of North American Developers





One-Country/One-Vote systems

- Have strong global recognition.
- Attractive to smaller countries.
 (because they're treated equal to large countries)

Full Consensus systems

- Recognition is more regional.
- Allows greater flexibility.
- More directly representative.





- Codes are traditionally better suited for the Full Consensus approach
 - Broad impact on society
 - Local amendments are typical
 - Must account for input beyond only technical (i.e., social, economic, political, legal, & so on)

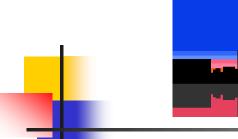


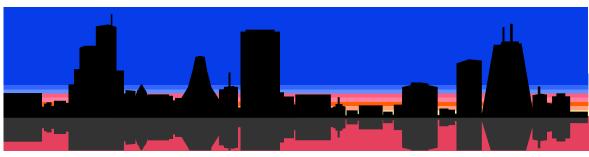




- One-Country/One-Vote Systems
 - ISO and IEC are typically considered ISDOs while gaining recognition as European regional SDOs.
- Full Consensus Systems
 - U.S. developers are typically considered North American regional SDOs, while gaining recognition as ISDOs.







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